

HAPE INTERNATIONAL (NINGBO) LTD
 HAPPY ARTS&CRAFTS (NINGBO) CO., LTD
 9-27NANHAI ROAD, DAGANG INDUSTRIAL CITY, BEILUN, NINGBO, CHINA

Sample Description : POLAR ANIMAL TACTILE PUZZLE/ FOREST ANIMAL TACTILE PUZZLE/ FARM ANIMAL BLOCK PUZZLE/ NUMBER PEG PUZZLE/ ALPHABET PEG PUZZLE/ CHUNKY CLOCK PUZZLE

Sample Quantity : 18 SETS

Style / Item No. : E1620/ E1621/ E1618/ E1404/ E1505/ E1622

Country of Origin : CHINA

Country of Destination : GLOBAL

Labeled Age Grading : E1620: 24 M+, E1621: 24 M+, E1618:24 M+, E1404: 36 M+, E1505: 36 M+, E1622: 3 Y+

Requested Age Grading : E1620: 24 M+, E1621: 24 M+, E1618:24 M+, E1404: 24 M+, E1505: 3 Y+, E1622: 3 Y+

ASIN No. : B071WSCPW6/ B071G8BMTZ/ B071WSC9S1/ B071WSCPWF/ B071G8BP5G/ B072QLDP7X

Client Reference Information : E1620A/ E1621A/ E1618A/ E1404A/ E1505B/ E1622A/ E8255,E8255A

Age Group Assessed as Per Age Guideline : E1620: 1+ YEARS, E1621: 1+ YEARS, E1618: 2+ YEARS, E1404: 2+ YEARS, E1505: 2+ YEARS, E1622: 2+ YEARS

Age Group Applied in Testing : E1620: 1+ YEARS, E1621: 1+ YEARS, E1618: 2+ YEARS, E1404: 2+ YEARS, E1505: 2+ YEARS, E1622: 2+ YEARS

Sample Receiving Date : SEP 07, 2021

Further Information Date : SEP 09, 2021

Testing Period : SEP 07, 2021 TO SEP 26, 2021

Test Requested

Result

EN 71-1: 2014+A1: 2018 – Safety of toys – Part 1: Mechanical and Physical Properties Pass

Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to Informative Annex A.26 and A.33 of the European standard on Safety of toys EN 71-1:2014+A1:2018 and the Directive 2009/48/EC-Safety of toys See Result

EN 71-2: 2011+A1: 2014 – Safety of toys – Part 2: Flammability Pass



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EN 71-2:2020 – Safety of toys – Part 2: Flammability

Pass

EN 71-3:2019+A1:2021– Migration of certain elements (Category III:for scrapped-off toy material)

Pass

Directive 2009/48/EC and its amendment Commission Directive (EU) 2019/1922 - EN71-3: 2019 – Migration of certain elements (Category III:for scrapped-off toy material)

Pass

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Jessie Zhou



Jessie Zhou
Authorized Signatory



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Results:

EN 71-1: 2014+A1: 2018 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

AS SPECIFIED IN EN 71-1: 2014+A1: 2018 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	General requirements	
4.1	Material cleanliness	<u>Pass</u>
4.7	Edges	<u>Pass</u>
4.8	Points and metallic wires	<u>Pass</u>
4.9	Protruding parts	<u>Pass</u>
4.10	Parts moving against each other:	
	4.10.3 Hinges	<u>N/A</u>
	(Not applicable to products with a hinged part that has a mass less than 250g.)	
5	Toys intended for children under 36 months	
5.1	General requirements:	
	5.1a Small part requirement on toys & removable components (Test method 8.2)	<u>Pass</u>
	5.1b Torque test (Test method 8.3)	<u>Pass</u>
	Tension test (Test method 8.4)	<u>Pass</u>
	Drop test (Test method 8.5)	<u>Pass</u>
	Impact test (Test method 8.7)	<u>Pass</u>
	Compression test (Test method 8.8)	<u>Pass</u>
	Sharp edge (Test method 8.11)	<u>Pass</u>
	Sharp point (Test method 8.12)	<u>Pass</u>
	5.1e Glued wooden toys and toys with glued on plastic decals	<u>Pass</u>

N/A = Not Applicable

LABELING REQUIREMENT (WASHING/CLEANING INSTRUCTION, CE MARK, IMPORTER / MANUFACTURER NAME AND ADDRESS, PRODUCT IDENTIFICATION) ACCORDING TO THE DIRECTIVE 2009/48/EC – SAFETY OF TOYS

Summary table:

	Observation Result	Location
Washing/Cleaning instruction	Not applicable	/
CE Mark	Present	Toy/Packaging
Importer's Name & Address	Present	Toy/Packaging
Manufacturer's Name & Address	Present	Toy/Packaging
Product ID	Present	Toy/Packaging



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Note:

1. According to Directive 2009/48/EC, a toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soaked. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned. According to the GUIDANCE DOCUMENT ON THE APPLICATION OF DIRECTIVE 2009/48/EC ON THE SAFETY OF TOYS, manufacturer shall not label "surface washing" on textile toys which, under the TSD, need to be soak washable.
2. CE marking should be visible from outside the packaging and its height must be at least 5mm.
3. Manufacturer's and Importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
4. Manufacturers must ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

EN 71-2: 2011+A1: 2014 – SAFETY OF TOYS – PART 2: FLAMMABILITY

AS SPECIFIED IN EN 71-2: 2011+A1: 2014 – SAFETY OF TOYS – PART 2: FLAMMABILITY

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4.1	General requirements	<u>Pass</u>

N.B. : - Only applicable clauses were shown.

EN 71-2:2020 – SAFETY OF TOYS – PART 2: FLAMMABILITY

AS SPECIFIED IN EN 71-2:2020 – SAFETY OF TOYS – PART 2: FLAMMABILITY

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4.1	General requirements	<u>Pass</u>

Type of gas: Butane gas used in the test burner

N.B. : - Only applicable clauses were shown.



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA21-205997.001	Natural color wood
SN2	SHA21-205997.002	Colorful coating (E1618)
SN3	SHA21-205997.003	Colorful coating on plywood (E1621)
SN4	SHA21-205997.004	Brown coating(Bear)
SN5	SHA21-205997.005	Brown plush
SN6	SHA21-205997.006	Orange coating(Fox)
SN7	SHA21-205997.007	Orange plush
SN8	SHA21-205997.008	Cyan coating(Owl)
SN9	SHA21-205997.009	Cyan fleece
SN10	SHA21-205997.010	Beige coating(Hedgehog)
SN11	SHA21-205997.011	Dk.Brown rope
SN12	SHA21-205997.012	Dk.Red coating(Reindeer)
SN13	SHA21-205997.013	Dk.Red fleece
SN14	SHA21-205997.014	Natural color plywood
SN15	SHA21-205997.015	Colorful coating on plywood (E1505)
SN16	SHA21-205997.016	Colorful coating on plywood (E1404)
SN17	SHA21-205997.017	Cream PC handle
SN18	SHA21-205997.018	Colorful coating on plywood (E1620)
SN19	SHA21-205997.019	White coating(Arctic hare & Polar bear)
SN20	SHA21-205997.020	White plush
SN21	SHA21-205997.021	Grey coating(Seal)
SN22	SHA21-205997.022	Grey leatheriod
SN23	SHA21-205997.023	Black fleece
SN24	SHA21-205997.024	White long plush
SN25	SHA21-205997.025	Black coating(Orca & Penguin)
SN26	SHA21-205997.026	Black leatheriod
SN27	SHA21-205997.027	Brown MDF
SN28	SHA21-205997.028	Red plastic
SN29	SHA21-205997.029	Turquosie coating
SN30	SHA21-205997.030	Yellowgreen coating
SN31	SHA21-205997.031	Red coating
SN32	SHA21-205997.032	Colorful coating on plywood (E1622)



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Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

EN 71-3:2019+A1:2021– Migration of certain elements (Category III:for scrapped-off toy material)

Test Method : With reference to EN 71-3:2019+A1:2021, analysis was performed by ICP-OES, IC-UV or LC-ICP-MS.

Test Item(s)	Limit	Unit	MDL	001	002	003
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	74	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	88	194
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	1612	1073
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	004	005	006
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	-
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	---
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	---
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	---
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	---
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	---
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	-



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Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	---
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	---
Soluble Boron (B)	15000	mg/kg	50	ND	ND	---
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	---
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	---
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	---
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	---
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	---
Soluble Aluminum (Al)	28130	mg/kg	50	107	ND	---
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	---
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	---
Soluble Organic Tin*	12	mg/kg	-	ND	ND	---

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	<u>009</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	51	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	69	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>	<u>011</u>	<u>012</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND



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Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	156	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	70	ND	64
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	013	014	015
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	118
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	52
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	657
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	016	017	018
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND



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Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	608	ND	613
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>019</u>	<u>020</u>	<u>021</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	-	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	---	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	---	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	---	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	---	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	---	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	-	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	---	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	---	ND	ND
Soluble Boron (B)	15000	mg/kg	50	---	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	---	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	---	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	---	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	---	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	---	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	---	ND	107
Soluble Nickel (Ni)	930	mg/kg	10	---	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	---	ND	ND
Soluble Organic Tin*	12	mg/kg	-	---	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>022</u>	<u>023</u>	<u>024</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND



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Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>025</u>	<u>026</u>	<u>027</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	61
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>028</u>	<u>029</u>	<u>030</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>031</u>	<u>032</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	62	87
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	240
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND



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Soluble Organic Tin* 12 mg/kg - ND ND

Notes :

(1) Mass of trace amount of sample 002 is 47.1mg, sample 004 is 20.0mg, sample 005 is 85.1mg, sample 007 is 37.7mg, sample 008 is 28.2mg, sample 009 is 35.5mg, sample 010 is 58.8mg, sample 011 is 69.2mg, sample 012 is 42.5mg, sample 013 is 61.0mg, sample 015 is 27.2mg, sample 016 is 21.7mg, sample 017 is 62.3mg, sample 018 is 29.2mg, sample 020 is 63.7mg, sample 021 is 27.6mg, sample 022 is 62.7mg, sample 023 is 77.1mg, sample 025 is 14.1mg, sample 026 is 38.0mg, sample 029 is 24.0mg, sample 030 is 22.7mg, sample 031 is 30.0mg, sample 032 is 37.2mg.

(2) As received, the test portion of 006, 019 is less than 10mg, therefore such components were not tested for migration of certain elements, as specified in the European Standard EN 71-3:2019+A1:2021.

(3) *Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019+A1:2021.

Directive 2009/48/EC and its amendment Commission Directive (EU) 2019/1922 - EN71-3: 2019 – Migration of certain elements (Category III:for scrapped-off toy material)

Test Method : With reference to EN 71-3:2019, analysis was performed by ICP-OES, IC-UV or LC-ICP-MS.

Test Item(s)	Limit	Unit	MDL	001	002	003
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	74	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	88	270
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	1612	1432
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND



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Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	-
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	---
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	---
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	---
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	---
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	---
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	-
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	---
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	---
Soluble Boron (B)	15000	mg/kg	50	ND	ND	---
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	---
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	---
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	---
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	---
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	---
Soluble Aluminum (Al)	28130	mg/kg	50	107	ND	---
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	---
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	---
Soluble Organic Tin*	12	mg/kg	-	ND	ND	---

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	<u>009</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	51	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND



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Soluble Aluminum (Al)	28130	mg/kg	50	ND	69	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	010	011	012
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	156	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	70	ND	64
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	013	014	015
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND



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Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	118
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	52
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	657
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	016	017	018
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	608	ND	613
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	019	020	021
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	-	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	---	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	---	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	---	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	---	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	---	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	-	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	---	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	---	ND	ND
Soluble Boron (B)	15000	mg/kg	50	---	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	---	ND	ND



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Soluble Manganese (Mn)	15000	mg/kg	50	---	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	---	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	---	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	---	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	---	ND	107
Soluble Nickel (Ni)	930	mg/kg	10	---	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	---	ND	ND
Soluble Organic Tin*	12	mg/kg	-	---	ND	ND

Test Item(s)	Limit	Unit	MDL	022	023	024
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	025	026	027
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND



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Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	61
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	028	029	030
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	031	032
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND



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Soluble Mercury (Hg)	94	mg/kg	10	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	62	87
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	240
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND

Notes :

(1)According to the Commission Implementing Decision (EU) 2021/867 of 28 May 2021, published in the OJEU. The EN 71-3:2019 is adopted as the harmonised standard for toys drafted in support of Directive 2009/48/EC.

(2)Mass of trace amount of sample 002 is 47.1mg, sample 004 is 20.0mg, sample 005 is 85.1mg, sample 007 is 37.7mg, sample 008 is 28.2mg, sample 009 is 35.5mg, sample 010 is 58.8mg, sample 011 is 69.2mg, sample 012 is 42.5mg, sample 013 is 61.0mg, sample 015 is 27.2mg, sample 016 is 21.7mg, sample 017 is 62.3mg, sample 018 is 29.2mg, sample 020 is 63.7mg, sample 021 is 27.6mg, sample 022 is 62.7mg, sample 023 is 77.1mg, sample 025 is 14.1mg, sample 026 is 38.0mg, sample 029 is 24.0mg, sample 030 is 22.7mg, sample 031 is 30.0mg, sample 032 is 37.2mg.

(3)As received, the test portion of 006, 019 is less than 10mg, therefore such components were not tested for migration of certain elements, as specified in the European Standard EN 71-3:2019.

(4)*Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019.

Remark:

The test results 001 are taken from report SHA21-129050.001

The test results 004, 010, 012, 017, 027 are taken from report SHA21-205023.020, 025, 014, 013, 023

The test results 006, 019, 021, 028 are taken from report SHA21-178179.003, 007, 008, 026

The test results 008, 029 are taken from report SHA21-205372.010, 009

The test results 014 are taken from report SHA21-138456.002

The test results 031 are taken from report SHA21-194660.004



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2. The declaration of conformity is based on non-binary acceptance decision rules with guard band, and the guard band length parameter is 0. When the measured value falls in the guard band limit, the declaration of conformity is "Conditional PASS" or "Conditional FAIL".

Sample Photo:



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E1622(B072QLDP7X)



E1620(B071WSCPW6)



E1622(B072QLDP7X)



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